

FIG - 1
ROTARY KILN FOR THE MANUFACTURE OF
HCL FROM SALT AND SULFURIC ACID

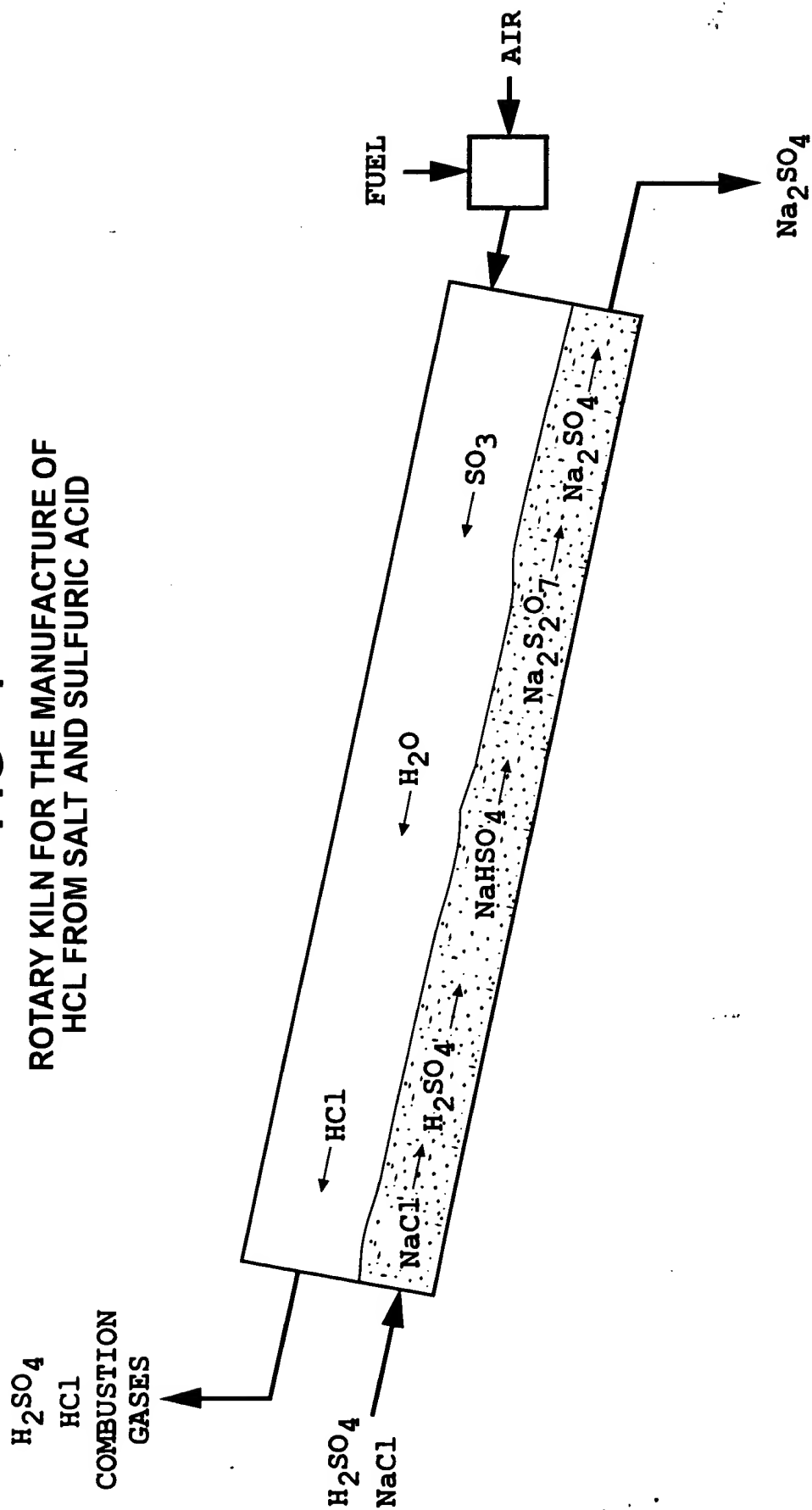


FIG - 2

The graph illustrates the temperature profiles of gas and solid streams in a kiln. The x-axis represents the kiln length from the inlet in feet, ranging from 0 to 100. The y-axis represents the temperature in degrees Celsius, ranging from 0 to 700. The gas stream temperature increases linearly from 300°C at the inlet to 700°C at the outlet. The solid stream temperature starts at 300°C, increases to 450°C by 20 feet, remains constant until 25 feet, then increases to 450°C by 60 feet, remains constant until 65 feet, and finally increases to 450°C at the outlet.

Kiln Length from Inlet (Feet)	Gas Stream Temperature (°C)	Solid Stream Temperature (°C)
0	300	300
10	350	350
20	400	450
25	425	450
30	450	450
40	500	450
50	550	450
60	600	450
65	625	450
70	650	450
80	700	450
100	700	450

